

ABSTRACT OF THE DISCLOSURE

A wireless local area network system capable of supporting host mobility services and an operation method therefor are disclosed. The wireless local area network system includes a gateway performing the functions of a home agent in mobile wireless communication environments and sending prefix information; and access points, each access point allocating an Internet Protocol (IP) address to a mobile host within a range thereof by using prefix information of the gateway. Thereafter, each access point produces and sends a Binding Update list that corresponds to the mobile hosts to the gateway. Thus, the present invention supports the mobility for mobile hosts with or without a mobile IPv6 stack, in a wireless local area network.